

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING

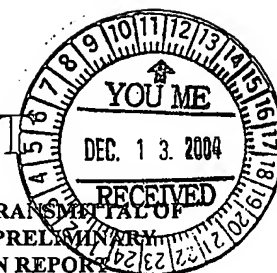
To:
YOU ME PATENT & LAW FIRM

Teheran Bldg., 825-33 Yoksam-dong, Kangnam-ku 135-080
Seoul Republic of Korea

PCT

NOTIFICATION OF TRANSMITTAL OF
INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 71.1)



Date of mailing
(day/month/year) 09 DECEMBER 2004 (09.12.2004)

Applicant's or agent's file reference
OPP020500KR

IMPORTANT NOTIFICATION

| | | |
|---|---|---|
| International application No. PCT/KR2002/001761 | International filing date (day/month/year) 18 SEPTEMBER 2002 (18.09.2002) | Priority date (day/months/year) 14 AUGUST 2002 (14.08.2002) |
|---|---|---|

Applicant

SAMSUNG ELECTRONICS CO., LTD. et al

1. The applicant is hereby notified that International Preliminary Examining Authority transmits here with the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details in the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

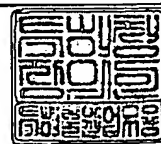
Name and mailing address of the IPEA/KR
Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

COMMISSIONER

Telephone No. 82-42-481-5207







PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| | | |
|---|--|---|
| Applicant's or agent's file reference OPP020500KR | FOR FURTHER ACTION | See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |
| International application No. PCT/KR2002/001761 | International filing date (day/month/year) 18 SEPTEMBER 2002 (18.09.2002) | Priority date (day/month/year) 14 AUGUST 2002 (14.08.2002) |
| International Patent Classification (IPC) or national classification and IPC IPC7 G02F 1/13363 | | |
| Applicant SAMSUNG ELECTRONICS CO., LTD. et al | | |

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|--|
| 1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. |
| 2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet. <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of _____ sheets. |
| 3. This report contains indications relating to the following items: I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application |

| | |
|--|---|
| Date of submission of the demand 25 FEBRUARY 2004 (25.02.2004) | Date of completion of this report 06 DECEMBER 2004 (06.12.2004) |
| Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140 | Authorized officer CHANG, Kyung Tae Telephone No. 82-42-481-5769  |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2002/001761

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☐ the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the claims:
pages _____, as originally filed
pages _____, as amended (together with any statement) under Article 19
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the drawings:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language English which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☒ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed," and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR2002/001761

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | | |
|-------------------------------|--------|------------|-----|
| Novelty (N) | Claims | 1-11 | YES |
| | Claims | | NO |
| Inventive step (IS) | Claims | 1,3,4,6-11 | YES |
| | Claims | 2,5 | NO |
| Industrial applicability (IA) | Claims | 1-11 | YES |
| | Claims | | NO |

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D : KR1997-62757 A (INTERNATIONAL BUSINESS MACHINES CORP.) 12 Sep 1997

1. NOVELTY(N) Claims 1 to 11

The subject-matter of claims 1-11 is novel over the available prior art (Article 33(2)PCT).

2. INVENTIVE STEP(IS) Claims 1 to 11

The present application is concerned with the following.

A liquid crystal display includes a TFT array panel, a color filter panel, a liquid crystal layer in an OCB mode, a pair of compensation films provided on outer surfaces of the TFT array panel and the color filter panel, a pair of polarization films provided on outer surfaces of the compensation films, and so on. When the wavelength dispersion of the liquid crystal layer is larger than the wavelength dispersion of the first and the second compensation films, the cell gap on the red pixel area > the cell gap on the green pixel area > the cell gap on the blue pixel area. On the contrary, when the wavelength dispersion of the liquid crystal layer is smaller than the wavelength dispersion of the first and the second compensation films, the cell gap on the red pixel area < the cell gap on the green pixel area < the cell gap on the blue pixel area.

Citation D is concerned with the following.

Citation D is directed to the prevention of reversal and deterioration of a screen at right and left viewing angles and upper and lower viewing angles in an OCB-mode liquid-crystal display. It is possible to prevent deterioration of a screen by obtaining the optimum value of [absolute value $R(V1)$ of retardation before correction by phase compensation film]/wavelength(λ) at a lower-side driving voltage for each color of R, G, and B and thereby, preventing an optical rotation of liquid crystal on B wavelength. Specifically, B wavelength is set to $R(V1)/\lambda \leq 0.85$. By adjusting a cell gap of each color, display characteristics of a screen at right and left viewing angles are improved.

Present claims 2 and 5 are obvious by citation D to a person skilled in the art

Therefore, claims 2 and 5 do not meet the requirement of Article 33(3) PCT.

3. INDUSTRIAL APPLICABILITY(IA) Claims 1 to 11

All claims are considered to be industrially applicable.